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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23632

7590

09/09/2008

SHELL OIL COMPANY POBOX 2463 HOUSTON, TX 772522463

**EXAMINER** SUCHFIELD, GEORGE A ART UNIT PAPER NUMBER

3676

DATE MAILED: 09/09/2008

Г	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/578,730	05/10/2006	Michael Anthony Addis	TS6440US	4457

TITLE OF INVENTION: METHOD OF REDUCING SAND PRODUCTION FROM A WELLBORE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/09/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:** 

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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							(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.	
10/578,730	05/10/2006	•	Michael Anthony Addis	•		TS6440US	4457	
TITLE OF INVENTION	: METHOD OF REDUC	ING SAND PRODUCT	ION FROM A WELLBORI	Ξ				
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	12/09/2008	
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
SUCHFIELD,	, GEORGE A	3676	166-307000					
1. Change of corresponde	ence address or indication	n of "Fee Address" (37	2. For printing on the pa	ntent front page, list	i			
CFR 1.363).  Change of correspondence of corresp	ondence address (or Cha	nge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to					
_	ondence address (or Cha 3/122) attached.							
PTO/SB/47; Rev 03-0 Number is required.	ication (or "Fee Address' 2 or more recent) attach	' Indication form ed. Use of a Customer	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or typ	e)				
PLEASE NOTE: Unl recordation as set fort	ess an assignee is ident h in 37 CFR 3.11. Comp	ified below, no assignee pletion of this form is NO	data will appear on the pa T a substitute for filing an a	tent. If an assigne issignment.	e is id	entified below, the do	cument has been filed for	
(A) NAME OF ASSIG	•		(B) RESIDENCE: (CITY	ě .	OUNT.	RY)		
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Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 Coi	rporatio	on or other private gro	up entity Government	
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Pleas	se first reapply an	y previ	iously paid issue fee s	hown above)	
☐ Issue Fee ☐ Publication Fee (N	To small entity discount p	nermitted)	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
	of Copies		☐ The Director is hereby	Director is hereby authorized to charge the required fee(s), any deficiency, or credit any sayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Stat	,	· · · · · · · · · · · · · · · · · · ·						
••	s SMALL ENTITY statu		b. Applicant is no long	_				
interest as shown by the i	records of the United Sta	tes Patent and Trademark	ed from anyone other than the k Office.	ie applicant; a regis	tered a	ttorney or agent; or the	e assignee or other party in	
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10/578,730	05	5/10/2006	Michael Anthony Addis	TS6440US	4457	
23632	7590	09/09/2008		EXAMINER		
SHELL OIL CO	MPANY	7	SUCHFIELD	GEORGE A		
P O BOX 2463			ART UNIT	PAPER NUMBER		
HOUSTON, TX 772522463				3676		
		DATE MAILED: 09/09/2008				

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 273 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 273 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	T		
	Application No.	Applicant(s)	
Madana Ralla abilit	10/578,730	ADDIS ET AL.	
Notice of Allowability	Examiner	Art Unit	
	GEORGE SUCHFIELD	3676	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate community. This application is su	his application. If not included ication will be mailed in due cours	
1. X This communication is responsive to 7/8/08 Communication	<u>on</u> .		
2. ☑ The allowed claim(s) is/are <u>1-14</u> .			
<ul> <li>3. Acknowledgment is made of a claim for foreign priority una)</li> <li>All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> </ul>	e been received.		
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received	in this national stage application fi	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application. itted. Note the attached EXAN	MINER'S AMENDMENT or NOTIC	
INFORMAL PATENT APPLICATION (PTO-152) which give	, , <u>-</u>	leclaration is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftspers	-	( PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date		W 055	
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amenament / Comment or I	n the Oπice action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			he
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Info	rmal Patent Application	
<ol> <li>Notice of References Gled (PTO-092)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	6. ☐ Interview Sur	• •	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./M	lail Date mendment/Comment	
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's S	tatement of Reasons for Allowand	e
of Biological Material	9.		

Application/Control Number: 10/578,730 Page 2

Art Unit: 3676

1. The drawing(s) filed on July 8, 2008 are accepted by the Examiner.

2. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 1-14 is that none of the references cited, taken either singly or in combination, teach or disclose a method of reducing inflow of rock particles from an earth formation into a wellbore for the production of hydrocarbon fluids, as in the claimed combinations, including the step or limitation in independent claim 1 of "creating a slot in the wellbore wall, wherein the slot is wedge shaped in a cross-sectional plane ... and the width of the slot decreases in a radially outward direction". For example, the references to Zupanick et al (2004/0206493) (note Figures 5-8) or Krawza et al (4,708,214) may create a wedge-shaped slot(s) extending outward from the wellbore, however such slot does not possess a width which "decreases in a radially outward direction", as called for in pending claim 1. Other references which disclose processes for explicitly relieving stress or "compressive stiffness" in a near-wellbore region of a subterranean formation(s), such as Grebennikov et al (7,025,141) or Heathman et al (5,787,983), similarly fail to effect such process through the creation of a slot(s) as specifically defined in pending claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 3676

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to GEORGE SUCHFIELD whose telephone number is (571)272-

7036. The examiner can normally be reached on M-F (6:00 - 2:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jennifer Gay can be reached on 571-272-7029. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gs

September 4, 2008

/GEORGE SUCHFIELD/

Primary Examiner, Art Unit 3676